



State Board Members

- Gene E. Vincent
- Rosie Hussey
- Jackie Dout
- Charles C. Edwards, Jr.
- Sister Jude Fitzpatrick
- Brian Gentry
- Wayne Kobberdahl
- Mary Jean Montgomery
- Max Phillips
- John Jessen

Have you read the headlines lately?



The Daily

Iowa Teachers
Best in the Nation



The Daily

Iowa High School Students'
ACT Scores Celebrated



The Daily

High School Students
Reaching for Rigor in AP and
College Level Courses

EXTRA!
EXTRA!

The Daily

Iowa High Schools are
Tops in Graduation Rate

EXTRA!
EXTRA!

The Daily

Colleges enjoy record enrollment
Thanks to quality K-12 schools

Achievement Gains

11th Grade Reading
Percent Proficient

	2001-03	2004-06	
Hispanic	53.5%	52.0%	- 1.5%
Asian	75.1%	79.1%	+ 4.0%
American Indian	62.5%	63.4%	+ 0.9%
African American	49.7%	51.4%	+ 1.7%
White	78.6%	78.7%	+ .012%



Other Indicators

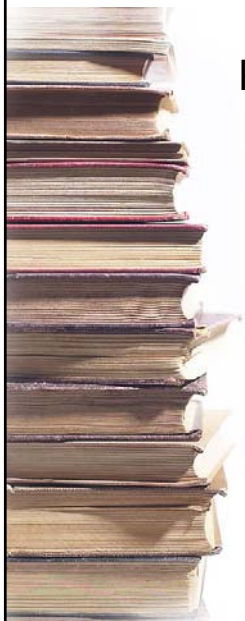
	2001	2006	
Graduation Rate	89.2%	90.7%	+ 1.5%
Advanced Placement Exams	5,995	9,833	+ 3,838
% Taking Advanced Math	19.1	24.4	+ 5.3%
Science	65.3	67.4	+ 2.1
# Taking Dual Credit/PSEO	22,400	31,000	+ 38.4%
% Taking ACT	66%	65%	- 1%
Average ACT Score	22.0%	22.1%	+ .1%
% Planning to Pursue Postsecondary Education	82.4%	83.5%	+ 1.1%

Good ... but Good Enough?

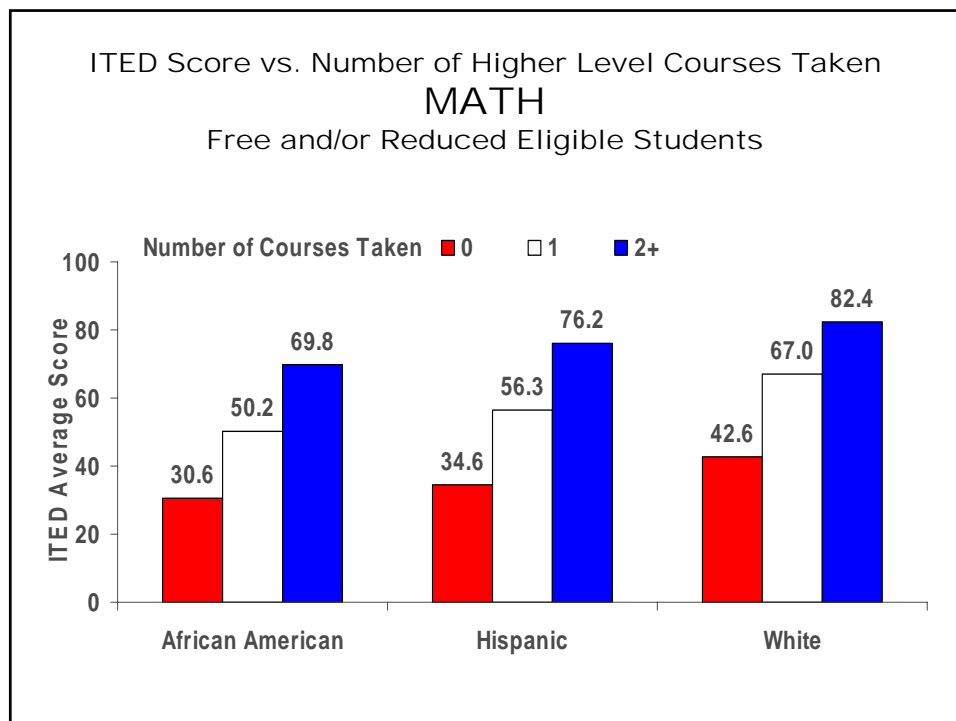
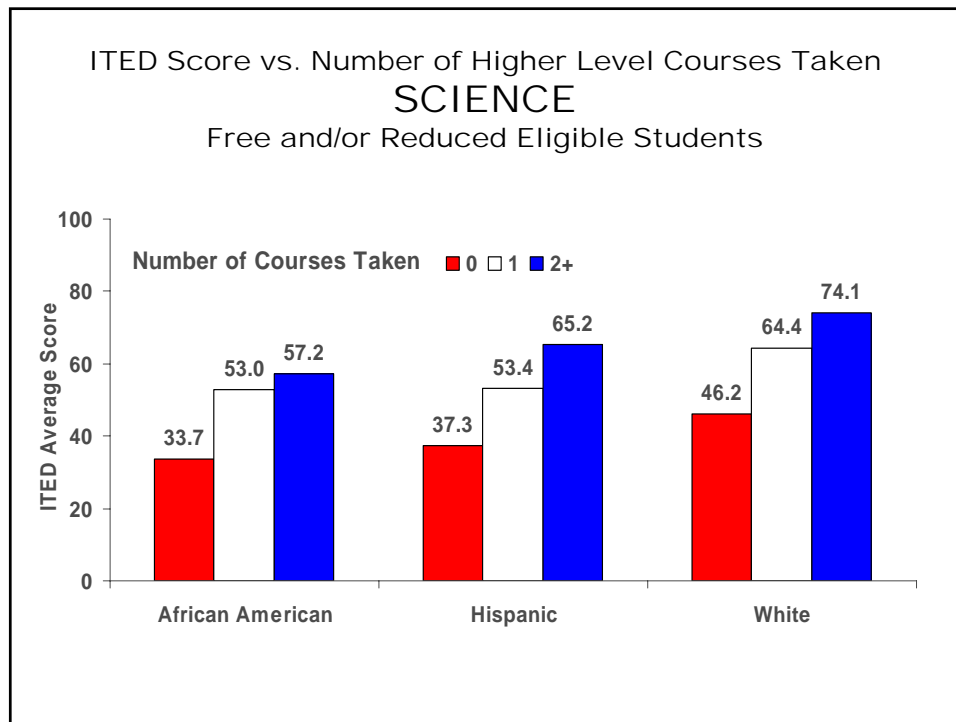
- Is **YOUR** school the kind of school students need for the 21st Century?



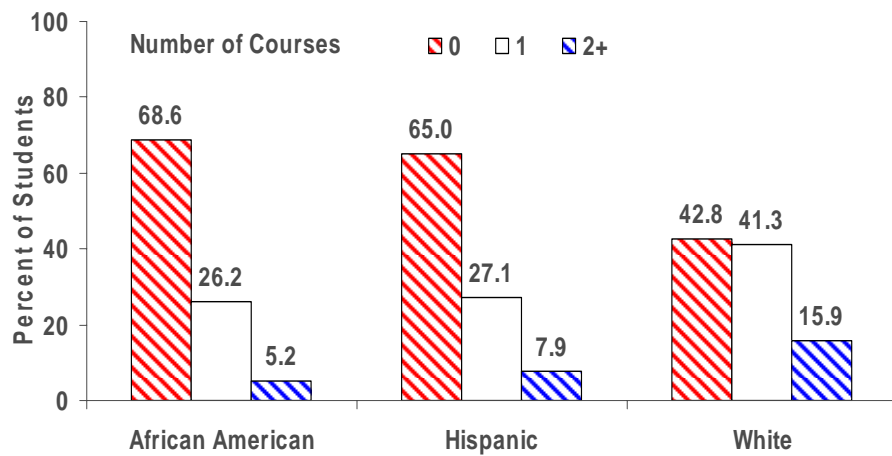
RANGE OF OPPORTUNITIES



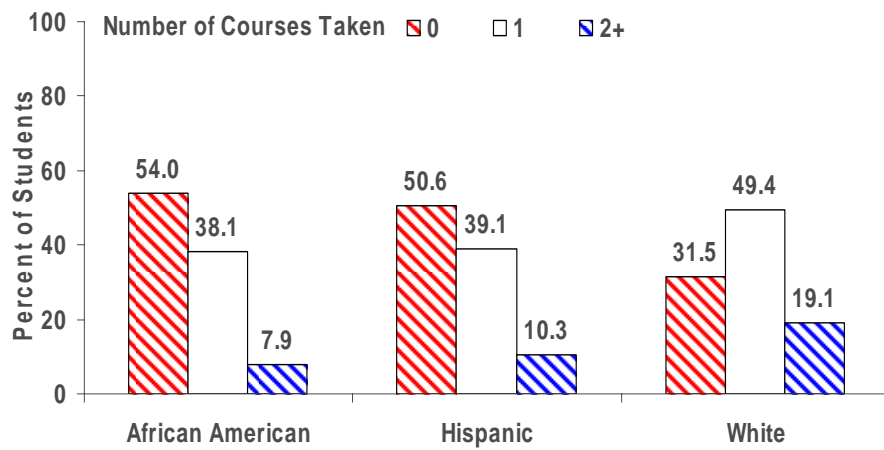
English	8.1	➡	15.6
Math	8.0	➡	13.1
Science	6.7	➡	12.3
Social Science	6.0	➡	10.0
Foreign Language	4.5	➡	16.7



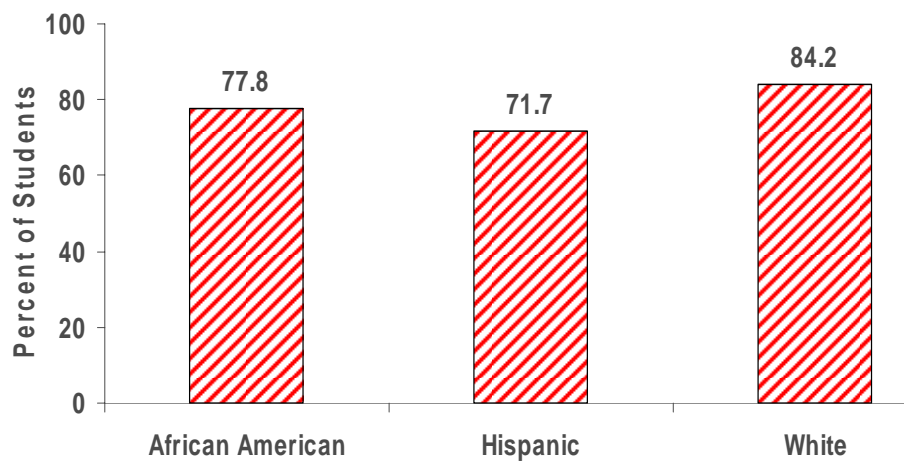
Distribution of Higher Level MATH



Distribution of Higher Level SCIENCE



% Planning to Pursue Postsecondary



Choices have expanded, Connections increased

- Internet
- Cell phones cameras
- iPods/MP3 players
- Satellite radio
- TiVo
- GPS



Global Marketplace Demands internationally competent work force

- 1 in 6 jobs in US is tied to international trade.
- Majority of growth for any size business will be in international trade.
 - In 2005, American investors put more new money in foreign stock funds than in domestic stock portfolios.
 - Spring 2005 respondents to survey on most attractive place to live in the world – only one country (India) out of 16 indicated the U.S.

Searching for Talent

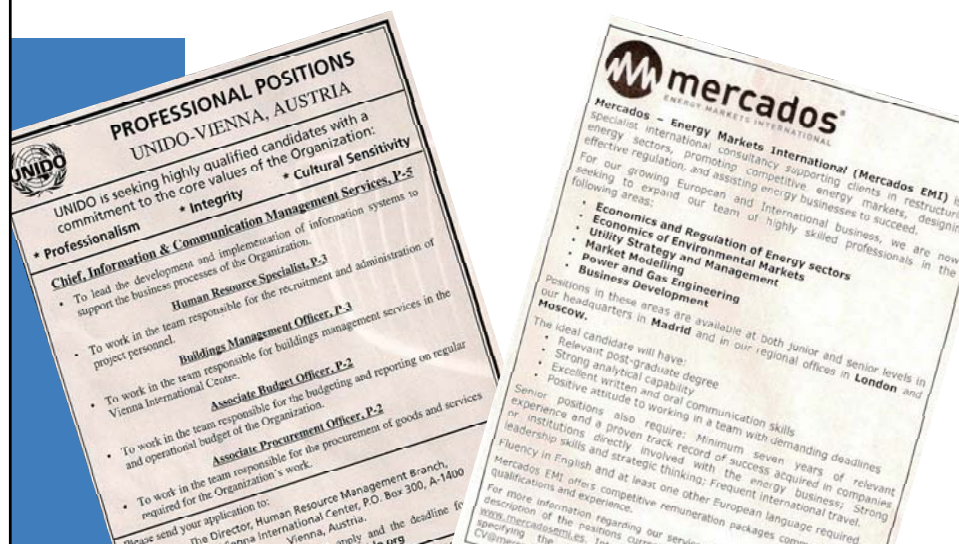
- 2,300 firms adopted talent-management technology.
- Google advertisement on billboard – solve the mathematical problem to obtain the telephone number to apply for a job.
- Modern economy places premium on brainpower and there is not enough to go around!



Jobs at Significant Risk of Offshoring

Purchasing agents	Chemists
Computer programmers	Biological technicians
Computer support specialists	Multi-media artists
Architects	Commercial designers
Biomedical engineers	Graphic designers
Chemical engineers	Medical transcriptionists
Electrical engineers	Switchboard operators
Mechanical engineers	Bill and account collectors
Architectural drafters	Bookkeeping, accounting clerks
Electrical drafters	Customer service reps
Mechanical drafters	Data entry keyers
Engineering technicians	Aircraft mechanics

Want Ads from Around the World



Profound Changes in Business and the Economy

Everywhere I go, education is the subject people most want to talk about. **In the flat world, anything is possible. And the society that finds a way to maximize its talent will be successful.**

Thomas Friedman

Good ... but Good Enough?

- **Is YOUR school** the kind of school students need for the 21st Century?



Comments from Iowa High School Students:

- “ My school doesn't offer enough advanced classes.”
- “ Wanted to take an on-line summer course but district wouldn't take the credit.”
- “ I'm stuck in a study hall because there is no class for me to take.”
- “ I can sleep through my classes and still get an A.”
- “ Our school goes at a faster pace than most other schools.”
- “ My school has lots of opportunities for us.”



- “ Our teachers don't hold us to strict deadlines. If my homework is late, they don't care.”
- “ I'm enrolled in honors lit and it is challenging, our school does a pretty good job but our teachers need to try harder.”
- “ Make classes more challenging and have higher expectations of us.”
- “ Sometimes they hold us back while others catch up.”
- “ I want teachers with integrity with what they say and what they teach.”
- “ Good teachers are those who know their subject matter thoroughly, care about their students, have a passion for teaching, and are fair and ethical.”

Comments from Iowa High School Students:

- “ We need to accept more responsibility to learn.”
- “ We should implement manners in our schools.”
- “ We always blame someone else - parents, teachers; we should look at ourselves – more people need to think about what they can do to make a difference.”

What Will it Take?

- Moving students to higher expectations
- Rigorous curriculum
- Creating classrooms/schools that are relevant to the 21st century
- Everyone making a difference



An Example from India ...

CLASS 8

Test Paper 1

*India
grade 8*

1. Evaluate:

(i) $\sqrt{194481}$ (ii) $\sqrt{1\frac{28}{36}}$ (iii) $\sqrt{2\frac{1}{4}}$

2. Simplify: $\sqrt{49} + \sqrt{0.49} + \sqrt{0.0049}$

3. Evaluate $\sqrt{7}$ up to three places of decimal.

4. Evaluate $\sqrt{0.4}$ up to three places of decimal.

5. What least number must be added to 269 to make it a perfect square?

6. The area of a square floor is 784 m^2 . Find its perimeter.

7. The sides of two squares are in the ratio 3:4. If their combined area is 12.25 hectares, find the length of the side of each square.

8. Find the cube root of $2\frac{10}{27}$.

9. Express $0.\overline{37}$ as a rational.

10. Find the value of $(8000)^{\frac{1}{3}}$.

11. Find the value of $(125)^{\frac{2}{3}}$.

12. Solve: $6^x = 216$

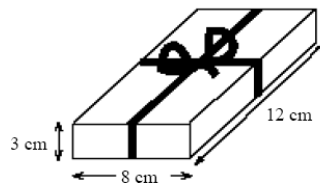
13. Simplify: $\frac{\sqrt{63} \times \sqrt{7}}{\sqrt{27}}$

14. Divide: $2x^4 + x^3 - 27x^2 + 36x - 15$ by $(2x - 5)$.

... compared to the United States

High School Student Performance

29. Stu wants to wrap some ribbon around a box as shown below and have 25 centimeters left to tie a bow.



How long a piece of ribbon does he need?

- A. 46 cm
B. 77 cm
C. 65 cm

Grade 9	Grade 10	Grade 11	Grade 12
38.0	41.0	43.3	50.2

A New Landscape is Emerging

“Educators slid into the 21st century – and into the digital age – still doing a great many things the old way. It’s time for education leaders to raise their heads above the daily grind and observe the new landscape that’s emerging. Recognizing and analyzing its characteristics will help define the education leadership, which we should be providing our students, both now and in the future.”

»

Prensky, Dec.05/Jan.06

What do Students Need?

- Survive or THRIVE?

Our students are no longer “little versions of us” as they may have been in the past. In fact, they are so different from us that we can no longer use either our 20th century knowledge or our training as a guide to what is best for them educationally.

Prensky, 2006



Complacency or Momentum?
Which shall it be?

COMPLACENCY

MOMENTUM

Adult driven	Student driven
Group instruction	Moving when ready
Knowledge for a test	Integrating knowledge for understanding
Test scores	On-going assessment data
Getting a diploma	Earning a diploma

Charge for Model Core

- To ensure that all Iowa students have **access to a rigorous and relevant curriculum** to prepare them for success in post-secondary education and the emerging global economy.
- To provide a tool for Iowa educators to use to assure that essential subject matter is being taught and **essential knowledge and skills** are being learned.

How Do You View NAEP?

- National Assessment of Educational Progress
- Assessment built from frameworks
- Used to compare states on student achievement on the test
- Does your district know what is tested?

Land of Corn and Complacency?

- “Momentum for reform hit a wall...”
- “Such intransigence rankled the USDE...”
- “International competition, federal pressure, and a yawning achievement gap appear to be rousing the Hawkeye State from its education slumber. It’s about time. Whether the state will marshal its energies to put education back on the right track is still an open question.”

Fordham Report, 2006

Getting it Done

- Taking personal responsibility to do what's right for our students.
- Don't wait to get the right people on board.
- Implement an aligned curriculum – don't just write or adopt it.
- Keep talking.
- Stay the course.



Opening the WORLD to Your High School Students



THIRD ANNUAL
IOWA HIGH SCHOOL SUMMIT
Comments by Judy Jeffrey
Director, Iowa Department of Education
December 2006